Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1. (Withdrawn) Compositions for thermoplastic aliphatic polyesters or copolymers in which the ester functions are separated by a chain of at least 2 carbon atoms, possibly substituted, characterized by an RMFI value ranging between 1.1 and 2.5.

Claim 2. (Withdrawn) Compositions according to claim 1, characterized in that they have a gel level less than or equal to 0.5 %.

Claim 3. (Withdrawn) Compositions according to claim 1, characterized in that they have a hardening behavior under elongation in the molten statre characterized by an exponential increase in elongation viscosity according to time.

Claim 4. (Withdrawn) Compositions according to claim 1, characterized in that they comprise a thermoplastic aliphatic polyester of which the mean molecular mass in number measured by gel permeation chromatography, is in excess of or equal to 10,000 g.mole.

Claim 5. (Withdrawn) Compositions according to claim 4, characterized in that they comprise a thermoplastic aliphatic polyester of which the mean molecular mass in number measured by gel permeation chromatography, is less than or equal to 200,000 g.mole.

Claim 6. (Withdrawn) Compositions according to claim 4, characterized in that the thermoplastic aliphatic polyester consists of a single polymer.

Claim 7. (Withdrawn) Compositions according to claim 4, characterized in that the thermoplastic aliphatic polyester results from the mixing of at least two thermoplastic aliphatic polyesters.

Claim 8. (Withdrawn) Compositions according to claim 1, characterized in that they also contain at least one filler material.

Claim 9. (Withdrawn) Compositions according to claim 1, characterized in that the thermoplastic aliphatic polyesters are ϵ-caprolactone polymers.

Claims 10-14. (Canceled)

Claim 15. (Withdrawn) The use of compositions according to claim 1 for the manufacture of films, foams, bottles or thermally molded products.

Claim 16. (Withdrawn) Films obtained starting from the compositions according to claim 1.

Claim 17. (Withdrawn) Films according to claim 16, characterized in that they are produced by blowing extrusion.

Claim 18. (Withdrawn) The use of the films according to claim 16 for the manufacture of trash bags, films for agriculture, films for packaging, shrouds, disposable diapers and adhesive films.

Claim 19. (Withdrawn) Foams obtained starting from the compositions according to claim 1.

Claim 20. (Withdrawn) Bottles obtained starting from the compositions according to claim 1.

Claim 21. (Withdrawn) Thermally molded products obtained starting from the compositions according to claim 1.

Claim 22. (New) A process for preparation of a thermoplastic polyester composition, comprising:

passing a thermoplastic aliphatic polyester into an extruder successively comprising a polymer loading zone, a melting zone, a homogenization zone, a reaction zone in which molten thermoplastic aliphatic polyester reacts with a radical generator employed in a quantity ranging from 0.01 to 0.2 % by wt based on the thermoplastic aliphatic polyester, and a discharge zone, wherein the temperature of the loading zone is $\leq$ 20°C, the temperature in the melting zone and in the homogenization zone is $\geq$the melting temperature of the polymer and $\leq$ the temperature at which the half-life period of the radical generator is ten times greater than the dwell time of the material in each of said zones and the temperature of the reaction zone is $\geq$the temperature at which the half-life period of the radical generator is $\leq$ the dwell

time of the material in this zone, thereby producing an extrudate having an RMFI value ranging from 1.1 to 2.5; and

obtaining the extruded polyester.

Claim 23. (New) The process according to Claim 22, wherein the aliphatic polyester entering the extruder is such that the ester functions thereof are separated by a chain of at least 2 carbon atoms.

Claim 24. (New) The process according to Claim 22, wherein the extruder device further successively comprises an additive introduction zone and a degassing zone after the reaction zone.

Claim 25. (New) The process according to Claim 22, wherein the radical generator is introduced into the extruder in a mixture with carbon dioxide.

Claim 26. (New) The process according to Claim 22, wherein the radical generator is introduced into the extruder by means of a thermoplastic aliphatic polyester that contains a radical generator.

Claim 27. (New) The process according to Claim 22, wherein the radical generator is introduced into the extruder by means of a filler material containing the radical generator.

Claim 28. (New) The process according to Claim 27, wherein at least one filler material is incorporated into the thermoplastic aliphatic polyester by introduction into the extruder.

Claim 29. (New) The process according to claim 22, wherein the aliphatic polyester that is produced has a dynamic viscosity, as measured at a temperature 20 to 40°C higher than the melting temperature of the thermoplastic aliphatic polyester, ranges from 0.1 to 100 rad/s.

Claim 30. (New) The process according to claim 22, wherein the aliphatic polyester is a hydroxyalcanoate, polybutylene succinate or a ϵ-caprolactone polymer.

Claim 31. (New) The process according to claim 30, wherein the ϵ-caprolactone polymer is a copolymer having a ϵ-caprolactone content of at least 50 % by weight with a comonomer selected from the group consisting of β-propiolactone, γ-butyrolactone, δ-valerolactone, 1,4-dioxane-2-one, 1,4-dioxepane-2-one, 1,5-dioxepane-2-one and a glycolide.

Claim 32. (New) The process according to claim 22, wherein the thermoplastic aliphatic polyester is comprised of a mixture of 0.1 to 80 % by wt of a low molecular weight polyester component and 99.9 to 20 % by weight of a high molecular weight polyester component.

Claim 33. (New) The process according to claim 32, wherein the low molecular weight aliphatic polyester has a number average molecular weight ranging from ≥ 10,000 g/mole to ≤ 60,000 g/mole and the high molecular weight aliphatic polyester has a number average molecular weight ranging from ≥ 60,000 g/mole to ≤ 200,000 g/mole.

Claim 34. (New) The process according to claim 22, wherein the aliphatic polyester has an RMFI value ranging from 1.2 to 2.